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1 [Enhancing Software Testing by Judicious Use of Code Coverage Information](#)

Stefan Berner, Roland Weber, Rudolf K. Keller

May 2007 ICSE '07: Proceedings of the 29th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available: [pdf\(1.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, tools for the analysis and visualization of code coverage have become widely available. At first glance, their value in assessing and improving the quality of automated test suites seems to be obvious. Yet, experimental studies as well as experience ...

2 Mixing ATPG and property checking for testing HW/SW interfaces

 Alessandro Fin, Franco Fummi, Graziano Pravadelli
April 2003 GLSVLSI '03: Proceedings of the 13th ACM Great Lakes symposium on VLSI

Publisher: ACM

Full text available:  pdf(148.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A critical part of the design of HW/SW systems concerns the definition of the HW/SW interface. Such interfaces do not directly map a functionality of the system description, but they are inferred by the characteristics of the selected programmable device ...

Keywords: ATPG, fault simulation, model checking

3 Search-based testing of service level agreements

 Massimiliano Di Penta, Gerardo Canfora, Gianpiero Esposito, Valentina Mazza, Marcello Bruno
July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Full text available:  pdf(227.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The diffusion of service oriented architectures introduces the need for novel testing approaches. On the one side, testing must be able to identify failures in the functionality provided by service. On the other side, it needs to identify cases in which ...

Keywords: quality of service, search-based testing, service level agreement

4 Usability testing for the web

 Vikram V. Ingleshwar
July 2007 Queue, Volume 5 Issue 5

Publisher: ACM

Full text available:  pdf(198.25 KB)  htm(14.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's sophisticated Web applications make tracking and listening to users more important than ever.

5 Testing the reachability of (new) address space

 Randy Bush, James Hiebert, Olaf Maennel, Matthew Roughan, Steve Uhlig
August 2007 INM '07: Proceedings of the 2007 SIGCOMM workshop on Internet network management

Publisher: ACM

Full text available:  pdf(152.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The Internet was originally designed to provide connectivity from every node to every other node. However, policies can impede this connectivity [1]. This is especially true for newly allocated address space. Some Internet Service Providers (ISPs) simply ...

6 Overcoming the challenges of multinational testing

 Agnieszka Bojko, Gavin S. Lew, Robert M. Schumacher
November 2005 *interactions*, Volume 12 Issue 6

Publisher: ACM

Full text available:  pdf(854.69 KB)  html(14.75 KB)

Additional Information: [full citation](#), [cited by](#), [index terms](#)

7 Path delay fault testing of ICs with embedded intellectual property blocks

 D. Nikolos, Th. Haniotakis, H. T. Vergos, Y. Tsiatouhas
January 1999 DATE '99: Proceedings of the conference on Design, automation and test in Europe

Publisher: ACM

Full text available:  pdf(54.95 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

8 Improving conformance and interoperability testing

 James D. Kindrick, John A. Sauter, Robert S. Matthews
March 1996 *StandardView*, Volume 4 Issue 1

Publisher: ACM

Full text available:  pdf(198.86 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

9 Random testing of C calling conventions

 Christian Lindig
September 2005 AADEBUG'05: Proceedings of the sixth international symposium on Automated analysis-driven debugging

Publisher: ACM

Full text available:  pdf(199.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In a C compiler, function calls are difficult to implement correctly because they must respect a platform-specific calling convention. But they are governed by a simple invariant: parameters passed to a function must be received unaltered. A violation ...

Keywords: C, calling convention, compiler, composition, consistency, random testing

10 Compatibility and Regression Testing of COTS-Component-Based Software

Leonardo Mariani, Sofia Papagiannakis, Mauro Pezze
May 2007 ICSE '07: Proceedings of the 29th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  pdf(243.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software engineers frequently update COTS components integrated in component-based systems, and can often chose among many candidates produced by different vendors. This paper tackles both the problem of quickly identifying components that are syntactically ...

11 Testing with hostile data streams

 Alan A. Jorgensen
March 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 2

Publisher: ACM

Full text available:  pdf(187.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

This note describes a method of testing software for response to malicious data streams. Systems that process data streams obtained from an external source such as the Internet are vulnerable to security issues if malicious data is not processed correctly. ...

Keywords: Adobe Acrobat Reader, buffer overflow, buffer overrun, internet security, random testing, software testing, steganography

12 The specification and testing of quantified progress properties in distributed systems

Prakash Krishnamurthy, Paolo A. G. Sivilotti

July 2001 ICSE '01: Proceedings of the 23rd International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  pdf(149.64 KB)  Publisher

Site

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

There are two basic parts to the behavioral specification of distributed systems: safety and progress. In earlier work, we developed a tool to monitor progress properties of CORBA components specified using the temporal operator transient. In ...

13 Validating a Web service security abstraction by typing

Andrew D. Gordon, Riccardo Pucella

November 2002 XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security

Publisher: ACM

Full text available:  pdf(210.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

An XML web service is, to a first approximation, an RPC service in which requests and responses are encoded in XML as SOAP envelopes, and transported over HTTP. We consider the problem of authenticating requests and responses at the SOAP-level, rather ...

Keywords: Web services, authentication, remote procedure call, type systems

14 Design, implementation and testing of extended and mixed precision BLAS

Xiaoye S. Li, James W. Demmel, David H. Bailey, Greg Henry, Yozo Hida, Jimmy Iskandar, William Kahan, Suh Y. Kang, Anil Kapur, Michael C. Martin, Brandon J. Thompson, Teresa Tung, Daniel J. Yoo

June 2002 ACM Transactions on Mathematical Software (TOMS), Volume 28 Issue 2

Publisher: ACM

Full text available:  pdf(456.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

This article describes the design rationale, a C implementation, and conformance testing of a subset of the new Standard for the BLAS (Basic Linear Algebra Subroutines): Extended and Mixed Precision BLAS. Permitting higher internal precision and mixed ...

Keywords: BLAS, double-double arithmetic, extended and mixed precision

15 Privacy preserving database application testing

 Xintao Wu, Yongge Wang, Yuliang Zheng
October 2003 WPES '03: Proceedings of the 2003 ACM workshop on Privacy in the electronic society

Publisher: ACM

Full text available:  pdf(175.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Traditionally, application software developers carry out their tests on their own *local development* databases. However, such local databases usually have only a small number of sample data and hence cannot simulate satisfactorily a live environment, ...

Keywords: database application testing, indistinguishability, privacy

16 Design, implementation and testing of an interactive video retrieval system

 Georgina Gaughan, Alan F. Smeaton, Cathal Gurrin, Hyowon Lee, Kieran McDonald
November 2003 MIR '03: Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval

Publisher: ACM

Full text available:  pdf(504.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper we present and discuss the system we developed for the search task of the TRECVID 2002, and its evaluation in an interactive search task. To do this we will look at the strategy we used in designing the system, and we discuss and evaluate ...

Keywords: interface design, system evaluation, usability testing, video analysis, video browsing, video retrieval

17 Constraint Driven Pin Mapping for Concurrent SOC Testing

Yu Huang, Sudhakar M. Reddy, Nilanjan Mukherjee, Chien-Chung Tsai, Omer Samman, Yahya Zaidan, Yanping Zhang, Wu-Tung Cheng
January 2002 ASP-DAC '02: Proceedings of the 2002 conference on Asia South Pacific design automation/VLSI Design

Publisher: IEEE Computer Society

Full text available:  pdf(284.36 KB)  Publisher Site

Additional Information: [full citation](#), [abstract](#)

A solution for mapping core I/O pins to System-On-a-Chip (SOC) I/O pins in order to achieve cost-efficient concurrent test for core-based designs is presented in this paper. The problem of pin mapping is first formulated as two well-known NP-complete ...

18 'Good' Organisational Reasons for 'Bad' Software Testing: An Ethnographic Study of Testing in a Small Software Company

David Martin, John Rooksby, Mark Rouncefield, Ian Sommerville
May 2007 ICSE '07: Proceedings of the 29th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  pdf(246.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we report on an ethnographic study of a small software house to discuss the practical work of software testing. Through use of two rich descriptions, we discuss that "rigour" in systems integration testing necessarily has to be organisationally ...

19 Meta-data version and configuration management in multi-vendor environments

John R Friedrich
June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  pdf(544.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Nearly all components that comprise modern information technology, such as Computer Aided Software Engineering (CASE) tools, Enterprise Application Integration (EAI) environments, Extract/Transform/Load (ETL) engines, Warehouses, EII, and Business Intelligence ...

20 Testing malware detectors

 Mihai Christodorescu, Somesh Jha
July 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 4

Publisher: ACM

Full text available:  pdf(374.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In today's interconnected world, malware, such as worms and viruses, can cause havoc. A malware detector (commonly known as virus scanner) attempts to identify malware. In spite of the importance of malware detectors, there is a dearth of testing techniques ...

Keywords: adaptive testing, anti-virus, malware, obfuscation

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